chris vandevelde

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summary of qualifications

- Moderate programming experience in Python, Javascript, Java, HTML, CSS, and SQL.
- Strong interest in Machine Intelligence and Human-Computer Interaction.
- Previous programming experience in Node.is, Perl, PHP, C++, bash scripting and ColdFusion.
- Experience with Adobe Photoshop, Inkscape, Microsoft Office, and in Mac, Linux, and Windows environments.
- Bilingual in English and French.

experience

trendradius Software & Machine Learning Developer

Kitchener, Ontario July 2014 - Present (Full-Time)

- Development on a web-based application using Node.js, Express, and MongoDB, a front-end Javascript application based on **Backbone.is** and **Twitter Bootstrap**, and a backend processing application written in Java.
- Created intelligent sentiment analysis tool in Java using OpenNLP and SentiWordNet, and feed-forward neural network to suggest matches across text-based content collections.
- Led efforts to ensure Continuous Integration and Deployment across products, set up Jenkins CI server and testing using Mocha is and JUnit, consolidated build processes using NPM and Maven.

canopy labs Data-Mining & Machine Learning Developer Toronto, Ontario

April 2013 - August 2013 (Full-Time)

- Fixed bugs and added features to the full stack of the Canopy Labs customer analytics platform throughout a series of inter-related applications.
- Worked in a variety of environments (both new and familiar) including Python, PHP, C++, JavaScript, HTML5/CSS, R, shell scripting on both Mac and Linux operating systems.
- Worked with a variety of software development tools including Git, FogBugz, JIRA, Scons, and Selenium.

square

San Francisco, California

Android Developer

Jan 2012 - April 2012 (Full Time) Sept 2012 – Dec 2012 (Full Time)

- Helped develop and build features, and identify and fix bugs across both Square's Wallet and Register Android applications.
- Coded across the entirety of the application, from layout files and UI to helper libraries to backend logic, home-screen app widgets and more.
- Contributed to maintaining software quality via tests using Android testing frameworks Robolectric and Robotium.
- Worked primarily on OS X using IntelliJ IDEA, along with git and both ant and maven for building.

upverter Blacksmith/Mad Scientist

Toronto, Ontario May 2011 - August 2011 (Full Time)

- Contributed features and bug-fixes to the development of an HTML5 Canvas and Python web application for Electronic Circuit Design, as well as a community-centered project showcase and parts library.
- Learned multiple new languages and APIs over four months including **Python**, **Protocol Buffers**, **HTML5 Canvas** and **Google Closure**.
- Developed a robust Node.js-based standalone script that used the existing Javascript & HTML5 Canvas rendering process, and batch export images to PNG.
- Also contributed to various side projects including **Arduino** and **Android** connections over USB, MIDI signal generation and Amazon EC2 setup.

ontario institute for cancer research

Toronto, Ontario

Genome Software Developer

May 2010 – December 2010 (Full Time)

- Bug-fixing, feature addition and updates in code & architecture on <u>GBrowse</u>, an open-source web application built in Perl, HTML, CSS & Javascript and a variety of SQL-compliant databases.
- Built and tested from scratch a custom data-sharing system onto the existing application.
- Worked in an entirely Linux-based development environment using Subversion.
- Additionally developed a layout algorithm for sorting glyphs onto the theoretically smallest space for the project.

education

university of waterloo

Waterloo, Ontario

Bachelor of Applied Sciences in Systems Design Engineering

September 2008 - June 2014

Relevant Courses

- Pattern Recognition Methods for classifying and intepreting measured data in groups.
- Machine Intelligence Intelligent systems, artificial intelligence techniques.
- Simulating Neurobiological Systems Neural computation, modelling techniques.
- Biomedical Measurement & Signal Processing EMG, EKG, EEG signals.
- Control Systems Controls engineering, systems theory, PID contorl and action.
- Image Processing Analyzing, adjusting, and filtering image data.
- Data Structures & Algorithms Data structure and algorithm characteristics and use.
- Various core courses Design process, creating unique solutions based on end-user needs, general systems.

clarkson secondary school

Ontario Secondary School Diploma French Immersion Diploma

Mississauga, Ontario June 2007 June 2007

awards

university of waterloo

President's Scholarship

Waterloo, Ontario September 2008

clarkson secondary school

Black Charger Award (800+ hours of extra-curricular involvement) Six Principal's Reception awards (awards for school commitment) Mississauga, Ontario September 2007 September 2006 – June 2008

activities & interests

- Drummer, Various jazz bands & combos, Mississauga & Waterloo, since January 2003
- Interested in cognitive science, human-computer interaction, and artificial intelligence. Maintains an online notebook at http://blog.chris.vandevel.de